IAP7 Rec'd PCT/PTO 01 SEP 2006 TO-1390 (Modified)

TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SURMISSION UNDER 35 U.S.C. 371

ATTORNET S DOCKET NUMBER
701019
CLIENT REF. NO.
Tak-201493
U.S. APPLICATION NO. (if known, see 37 CFR 1.5)
10/582,602

CONCENTANCE / CODMIC	10/582,602	
		11 December 2003 (11.12.2003)
TITLE OF INVENTION		

α-AMINO ACID DERIVATIVES AND USE THEREOF AS MEDICINES APPLICANT(S) FOR DO/EO/US AKAHOSHI et al. Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: This is a FIRST submission of items concerning a filing under 35 USC 371 and 37 CFR 1.491. 2 This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 USC 371 and 37 CFR 1.491. This is an express request to begin national examination procedures (35 USC 371(f)). ☐ The US has been elected (PCT Article 31). ☐ A copy of the International Application as filed (35 USC 371(c)(2)) is attached hereto (required only if not communicated by the International Bureau). ☐ has been communicated by the International Bureau.
 ☐ is not required, as the application was filed in the United States Receiving Office (RO/US). ☐ An English language translation of the International Application as filed (35 USC 371(c)(2)). a.
is attached hereto. has previously been submitted under 35 U.S.C. 154(d)(4). 7. Amendments to the claims of the International Application under PCT Article 19 (35 USC 371(c)(3)) а. П are attached hereto (required only if not communicated by the International Bureau). b. have been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. c have not been made and will not be made. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 USC 371(c)(3)). An oath or declaration of the inventor(s) (35 USC 371(c)(4)). 10. An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 USC 371(c)(5)). 11. Nucleotide and/or Amino Acid Sequence Submission a.

 Computer Readable Form (CRF) Specification Sequence Listing on: CD-ROM or CD-R (2 copies); or Paper Copy C. Statement verifying identity of above copies Items 12 to 20 below concern other document(s) or information included: An Information Disclosure Statement under 37 CFR 1.97 and 1.98. ☑ Form PTO-1449 Copies of References (except for U.S. patents and applications) 13. An assignment for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. A FIRST preliminary amendment. A SECOND or SUBSEQUENT preliminary amendment. 15. 16 A substitute specification. 17. A change of power of attorney and/or address letter. ☐ Application Data Sheet Under 37 CFR 1.76 18

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Date: September 1, 2006

	U.S. APPLICATION NO. (if known, see 37 CFR 1.5) 10/582,602	PCT/JP2004/01	ATTORNEY DOCKET NO. 701019	CLIENT REF. NO. Tak-201493
	EV 708754350 L	is	September 1	1, 2006
١			Date of De	posit

I hereby certify that this transmittal document with respect to the U.S. national phase of the above-referenced International Patent Application, including all of the items listed thereon as enclosures, is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" Service under 37 CFR 1.10 on the date indicated above and is addressed to Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria. VA 22313-1450.

John Kilyk, Jr.

Typed or Printed Name of Person Making Deposit

Signature of Person Making Deposit

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Application No. 10/582,602

Applicant: Akahoshi et al.

Filed: June 9, 2006

TC/AU: Unassigned

Examiner: Unassigned

Docket No.: 701019 (Client Reference No. 201493)

Customer No.: 23460

Mail Stop PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 CFR 1.97 and 1.98, the references listed on the enclosed Form PTO-1449 and/or Substitute Form PTO-1449 ("Form 1449") are submitted for consideration by the Examiner in the examination of the above-identified patent application.

The full consideration of the references in their entirety by the Examiner is respectfully requested and encouraged. Also, it is respectfully requested that the references be entered into the record of the present application and that the Examiner place his or her initials in the appropriate area on the enclosed Form 1449, thereby indicating the Examiner's consideration of each of the references.

The submission of the references listed on the Form 1449 is for the purpose of providing a complete record and is not a concession that the references listed thereon are prior art to the invention claimed in the patent application. The right is expressly reserved to establish an invention date earlier than the above-identified filing date in order to remove any reference submitted herewith as prior art should it be deemed appropriate to do so.

Further, the submission of the references is not to be taken as a concession that any reference represents art that is relevant or analogous to the claimed invention. Accordingly, the right to argue that any reference is not properly within the scope of prior art relevant to an examination of the claims in the above-identified application is also expressly reserved.

The Information Disclosure Statement is being filed:

within any one of the following time periods: (a) within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d); (b) within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 of an international application; (c) before the mailing date

In re Appln. of Akahoshi et al. Application No. 10/582,602

	of a fir after th	st Office Action on the merits; or (d) before the mailing of a first Office Action ne filing of a request for continued examination under 37 CFR 1.114.
	37 CF	a), (b), (c) or (d) above, but before the mailing date of a final action under R 1.113, a Notice of Allowance under 37 CFR 1.311, or an action that rise closes prosecution in the application, and includes <i>one</i> of:
		the Statement under 37 CFR 1.97(e) (see "Statement under 37 CFR 1.97(e)" below).
	\Box	the fee of \$180 set forth in 37 CFR 1.17(p) (see "Fees" below).
	under and on 37 CF	he mailing date of a final action under 37 CFR 1.113 or a Notice of Allowance 37 CFR 1.311, or an action that otherwise closes prosecution in the application, or before payment of the issue fee, and includes the Statement under R 1.97(e) (see "Statement under 37 CFR 1.97(e)" below), and the fee of \$180 as th in 37 CFR 1.17(p) (see "Fees" below).
	payme contain 37 CF: \$180 a NOTE: May 29	he mailing date of a Notice of Allowance under 37 CFR 1.311, and on or before nt of the issue fee, and within thirty days of receiving each item of information ned in the Information Disclosure Statement, and includes the Statement under R 1.704(d) (see "Statement under 37 CFR 1.704(d)" below), and the fee of s set forth in 37 CFR 1.17(p) (see "Fees" below). This is for original applications except applications for a design patent, filed on or after , 2000, wherein a paper containing only an Information Disclosure Statement in compliance CFR 1.97 and 1.98 is being filed.
Copie	s of the	References
	Copies herewi	s of all of the references listed on the enclosed Form 1449 are enclosed th.
\boxtimes	Form:	s of U.S. patents and patent applications that are listed on the accompanying 1449 are not enclosed herewith. Copies of other references identified on the panying Form 1449 are enclosed herewith.
\boxtimes	relevar an Eng action degree	ed to each reference not in the English language is a concise explanation of the nce pursuant to 37 CFR 1.98(a)(3). An English-language equivalent/patent, or lish-language abstract, or an English-language version of the search report or by a foreign patent office in a counterpart foreign application indicating the of relevance found by the foreign office is being submitted in lieu of a concise ation of the relevance pursuant to 37 CFR 1.98(a)(3).
\boxtimes	A copy	y of the foreign search report is enclosed herewith.
	parent	ferences listed on the enclosed Form 1449 were previously identified in the application(s) of the present application, and copies of the references were ned at that time. Accordingly, additional copies of the references are not

In re Appln. of Akahoshi et al. Application No. 10/582,602

U.S. APPLICATIONS

submitted herewith, so as not to burden the file with duplicate copies of references. The Examiner is respectfully requested to carefully review the references in accordance with the requirements set out in the Manual of Patent Examining Procedure. In accordance with 37 CFR 1.98(d), the details of the parent application(s) relied upon for an earlier filing date under 35 USC 120 in which copies of the references were previously furnished are set out below:

STATUS (check one)

	U.S. APPLICATIONS	U.S. FILING DATE	PATENTED	PENDING	ABANDONED
1.					
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3.					
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Sta	tement under 37 CFR	1.97(e)			
	Information Disclo foreign patent office	nereby states that each it sure Statement was first te in a counterpart foreig filing of the Information	cited in any co n patent applic	mmunication	n from a
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Fees

ⅎ	No fee is owed by the applicant(s).
]	Charge Deposit Account No. 12-1216 in the amount of \$180.00 (37 CFR 1.17(p))
	(A duplicate copy of this communication is enclosed for that purpose.)

In re Appln. of Akahoshi et al. Application No. 10/582,602

Authorization to Charge Additional Fees

If any additional fees are owed in connection with this communication, please charge Deposit Account No. 12-1216. (A duplicate copy of this communication is enclosed for that purpose.)

Instructions as to Overpayment

Credit Account No. 12-1216.
Refund

John Kilyk, Jr., Reg No. 39,763 LEYDIG, VOIT & MAYER, LTD. Two Prudential Plaza, Suite 4900 180 North Stetson Avenue Chicago, Illinois 60601-6780 (312) 616-5600 (telephone) (312) 616-5700 (facsimile)

Date: September 1, 2006

Substitute for form 1449A/B/PTO

Sheet

Examiner Signature

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary) of

	Complete if Known
Application Number	10/582,602
Filing Date	June 9, 2006
First Named Inventor	AKAHOSHI, Fumihiko
Group Art Unit	Unassigned
Examiner Name	Unassigned
Attomey Docket Number	701019
Client Reference No.	201493

				U.S. PATENT DOCUMENTS		
		U.S. Patent Document				
Examiner Initials	Doc. No.	Application or Patent Number	Kind Code	Name of Patentee or Applicant	Date of Publication	Filing Date If Appropriate
	AA	2003/0134802	A1	Demuth et al.	Jul. 17, 2003	
	AB	2004/0063935	A1	Yasuda et al.	Apr. 1, 2004	
	AC	2004/0106656	A1	Ashton et al.	Jun. 3, 2004	
	ΑD	2004/0229926	A1	Yasuda et al.	Nov. 18, 2004	
	AE	2005/0054678	A1	Yasuda et al.	Mar. 10, 2005	
	AF	2005/0203030	A1	Demuth et al.	Sep. 15, 2005	
	AG	6,548,481	B1	Demuth et al.	Apr. 15, 2003	
	АН	6,849,622	B2	Yasuda et al.	Feb. 1, 2005	
	AI	7,026,316	B2	Ashton et al.	Apr. 11, 2006	
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				FORE	IGN PATENT DOCUMENTS			
		F	oreign Patent Documer	nt			Trans	slation
Examiner Initials	Doc. No.	Office	Application or Patent Number	Kind Code	Name of Patentee or Applicant	Date of Publication	Yes	No*+
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	A.K.	WO	02/30801	-A4	Tanaba Saiyaku Go., Ltd.	Apr. 18, 2002		<u>></u> (nd-
	ΑL	wo	02/076450	A1	Merck & Co., Inc.	Oct. 3, 2002		
	AM	JP	2004-244412	A	Kotobuki Seiyaku KK	Sept. 2, 2004		X*+

		OTHER - NON PATENT LITERATURE DOCUMENTS		
Examiner	Doc.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item	Trans	lation
Initials	s No.	No. (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number (s), publisher, city and/or country where published.	Yes	No**
	AN	HEYMANN et al., FEBS Letters, 91(2): 360-364 (July 1978)		
	AO	SCHÖN et al., Biomed. Biochim. Acta, 44(2): K9-K15 (1985)		$\overline{}$
	AP	JOHNSON et al., The Journal of Cell Biology, 121(6): 1423-1432 (1993)		
	AQ	CALLEBAUT et al., Science, 262: 2045-2050 (December 24, 1993)		$\overline{}$
	AR	DEACON et al., Journal of Clinical Endocrinology and Metabolism, 80(3): 952-957 (1995)		
	AS	DEACON et al., American Journal of Physiology, 271: E458-E464 (1996)		
	ΑT	KNUDSEN et al., European Journal of Pharmacology, 318: 429-435 (1996)		
	AU	WIEDEMAN et al., Current Opinion in Investigational Drugs, 4(4): 412-420 (2003)		
	AV	CALDWELL et al., Bioorganic & Medicinal Chemistry Letters, 14: 1265-1268 (2004)	-	/
	AW	PARMEE et al., Biographic & Medicinal Chemistry Letters, 14: 43-46 (2004)		

/Noble Jarrell/ (04/09/2008) A concise statement of relevance is being submitted in lieu of a translation. 37 CFR 1.98(a)(3).

Date Considered

An English-language equivalent/patent, or an English-language abstract, or an English-language version of the search report or action by a foreign patent office in a counterpart foreign application indicating the degree of relevance found by the foreign office is being submitted in lieu of a concise explanation of relevance under 37 CFR 1.98(a)(3).